PRODUCT: Portable/PLUS
SERVICE ADVISORY # 054
DATE: April 14, 1986

Subject

448K/640K MEMORY UPGRADE

DESCRIPTION:

COMPAQ® Portable and COMPAQ PLUS® Personal Computer system boards can be upgraded to 448K or 640K memory in two ways.

1. An option kit (P/N 101263-001) can be ordered from your COMPAQ Sales Representative. This kit consists of: nine 256Kx1 RAM chips, 448K and 640K decoder PROMs, and upgrade instructions. If you are upgrading to 640K, nine additional 256Kx1 RAM chips are also needed.

2. If you have 256Kx1 and 64Kx1 memory chips already in stock, an upgraded decoder PROM can be ordered from COMPAQ Service Administration. (Part numbers are listed below.)

Also, when upgrading the COMPAQ Portable Computer to 640K memory, the system board must have Revision C, or later, system ROM. Rev C, or later, ROM eliminates the need to set SW 2.

The latest system ROM (P/N 100699-001) can be ordered from COMPAQ Service Administration.

The procedure for upgrading the system board without the option kit and for determining if the COMPAQ Portable system ROM is Rev C, or later, is listed below.

PROCEDURE:

* To upgrade COMPAQ Portable and COMPAQ PLUS Personal Computers to 448K memory, use the following procedure.

    1. Replace the decoder PROM at location U-35 on the system board with the upgraded decoder PROM (P/N 105417-001).

    2. Add 256Kx1 chips in bank 3 of the system board and 64Kx1 chips in bank 2 for total memory of 448K.

* To upgrade COMPAQ Portable and COMPAQ PLUS Personal Computers to 640K memory, use the following procedure.

    1. If upgrading the COMPAQ Portable Computer, use the following steps to check the ROM revision; if upgrading the COMPAQ PLUS, skip to Step 2.

A. Place an MS®-DOS diskette that contains a copy of DEBUG.COM in drive A and boot the system.

B. In response to the A> prompt, type the following lines exactly as shown.

DEBUG (press the ENTER key)
D FØØØ:FFE6 (press the ENTER key)

The first line on the far right of the screen displays a letter, some spaces, and the name COMPAQ. The letter is the system ROM revision.

C. To end the DEBUG session, type:

Q

and press the ENTER key.

D. Replace the system ROM (P/N 100699-001) if necessary.

E. If locations U40 and U47 contained system ROMs, replace both ROMs with upgraded ROMs.

2. Replace the decoder PROM at location U-35 on the system board with the upgraded decoder PROM (P/N 105416-001).

3. Add 256Kx1 chips in banks 2 and 3 of the system for total memory of 640K.

For further information or clarification, contact COMPAQ Dealer Support at:

800-231-9977 (All Authorized Dealers)

Telex: 795437
A/B: COMPAQCOMP HOU (Houston, TX)

Telex: 898630
A/B: COMPAQ TTX D (European Headquarters)
49-89-926-970

Telex: 889126
A/B: COMPAQ G (United Kingdom Headquarters)
44-1-940-8860

Telex: 603124
A/B: COMPAQ (French Headquarters)
33-16-446-3625

416-449-8741 (Canadian Headquarters)

Telex: 177554
A/B: COMPAQ AA (Australian Headquarters)
61-2-660-0077

cc: Store Manager